

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

Applicant

Paul A. Brown

Filing Date

04/06/99

Group



Reference Designation

U. S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
↖	AA 4,772,870	9/88	Reyes, R.R.	340	310	
↖	AB 1,547,242	7/25	Strieby, M.E.			
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
↖	AL GB 2101857	1/93	United Kingdom	H04B	3/56	
↖	AM GB 1548652	7/79	United Kingdom	H04B	3/54	
↖	AN EP 0141673	5/85	Europe	H04B	3/56	
↖	AO WO92/16920	1/92	PCT	H04B	3/54	
↖	AP WO84/01481	4/84	PCT	H04B	3/54	

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

↖	AR	J.R. Formby and R.N. Adams, "The Mains Network As A High Frequency Signalling Medium," The Electricity Council, January 1970
↖	AS	J.M. Barstow, "A Carrier Telephone System for Rural Service, AIEE Transactions, Vol. 66, 1947, pp. 501-507
	AT	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

09/287,028

Applicant

Paul A. Brown

Filing Date

04/06/99

Group

Examiner

Reference Designation

U. S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA						
AB						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
AL						
AM						

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

AR	I.C. Vercellotti & I.A. White, "Distributed Power Line Communications for Remote Meter Reading and Selective Load Control," Proceedings of the American Power Conference 1974, Vol. 36, pp. 1114-1119.
AS	B. Ron Russell, editor, "Communication Alternatives for Distribution Metering and Load Management," Record of Panel Presentations, 1979 Summer Power Meetings, IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 4 July/Aug. 1980, IEEE, New York, NY, pp. 1448-1455.
AT	Glen Lokken et al., "The Proposed Wisconsin Electric Power Company Load Management System," 1976 Nat. Telecomm. Conf., Dallas, Texas, Nov. 1976, IEEE, New York, NY, pp. 2.2-1 to 2.2-3.
AU	J.H. Bull et al., "A Survey of Mains Signalling Within the UK," ERA Report No. 86-0038, ERA Technology Limited, Surrey, England, April 1986, pp. 1-52, AA.2-AA.5, FIGS. 1-33, Table I.
AV	British Standards, "Signalling on low-voltage electrical installations in the frequency range 3KHz to 148.5KHz," BS EN 50065-1, 1992 (2 pages); "Electromagnetic compatibility - Generic emission standard," BS EN 50081-1 (2 pages); "Telecontrol equipment and systems," BS 7407 (870-1-1) (1 page).

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of

C:\IDS1449

this form with next communication to applicant.

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

09/287,028

Applicant

Paul A. Brown

Filing Date

04/06/99

Group

Examiner

Reference Designation

U. S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
AA						
AB						

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
AL						
AM						

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

AW	Draft standard, "Signalling on Low-Voltage Electrical Installations in the Frequency Band 3kHz to 148.5 kHz, Part 4: Filters at the interface of the indoor and outdoor electricity network," EN 50 065-4 April 1992 (11 pages).
AW	Draft standard, "Signalling on Low-Voltage Electrical Installations in the Frequency Band 3kHz to 148.5 kHz, Part 7: Equipment Impedance, EN 50 065-7 April 1992 (3 pages).
AX	"Coaxial Feeder Cables," Engineering Notes, Publication Ref. No. TSP507/1, Pye Telecommunications Limited, Cambridge, England, June 1975, pp. 1-13.

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

09/287,028/

Applicant

Paul A. Brown

Filing Date

04/06/99

Group

Examiner

Reference Designation

U. S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>JS</i>	AA	4,479,033	10/84	Brown et al.	179	2.51
<i>JS</i>	AB	4,701,945	10/87	Pedigo	379	66

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
<i>JS</i>	AL	WO93/07693	4/93	PCT, WIPO	H04J	13/00
<i>JS</i>	AM	2,326,087	4/77	France	H04B	3/54
	AN					Abstract

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

<i>JS</i>	AR	JP62120735, Patent Abstracts of Japan, Vol. 11 No. 341 (E-554) 2 June 1987, Kaoruet al., Method and Apparatus for Frequency Hopping Stread Spectrum Power Line Carrier Communication, 1 page.
<i>JS</i>	AS	JP62030428, Patent Abstracts of Japan, Vol. 11 No. 209 (E-521) 9 Feb. 1987, Kondo Tomio, Current Superposition Type High Frequency Circuit, 1 page.
	AT	
	AU	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

09/287.028

Applicant

Paul A. Brown

Filing Date

04/06/99

Group

Reference Designation

U. S. Patent Documents

Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
EL	AA	4,409,542	10/83	Becker et al.	324	434	
	AB	5,477,091	12/95	Fiorina et al.	340	310.01	
	AC	4,419,621	12/83	Becker et al.	324	51	
	AD	4,367,522	1/83	Forstbauer et al.	363	137	
	AE	4,912,553	3/90	Pal et al.	340	310.01	
	AF	4,383,243	5/83	Krugel et al.	340	310.02	
	AG	4,359,644	11/82	Foord	340	310.02	
	AH	3,993,989	11/76	Held et al.	340	310.01	
	AI	5,559,377	9/96	Abraham	379	66	6/94
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes/No
	AL						
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

	AR	
	AS	
	AT	
	AU	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Applicant

Paul A. Brown

Serial No.

09/287,028

Filing Date  
04/06/99

Group

Reference Designation

U. S. Patent Documents

Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>W</i>	AD	3,846,638	11/74	Wetherell	307	3	
	AB						
	AC						
	AD						
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes/No
<i>W</i>	AL	WO90/13950	11/90	PCT, WIPO	H04B	1/50	
	AM						
	AN						
	AO						
	AP						

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

<i>W</i>	AR	JP1276933, Patent Abstracts of Japan, Vol. 14, No. 51 (E-0881) 30 Jan. 1990, Uchida Hiroshi, Transformer Bypass Circuit, 1 page.
	AS	
	AT	
	AU	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449

Form PTO-1449 (Modified) List of Patents and Publications for Applicant's Information Disclosure Statement	Atty Docket No.:  NRWB002--2	Serial No.: <del>08/826,983</del>  09/287,028
	Applicant(s): Paul Anthony BROWN	
	Filing Date: 04/06/99 <del>April 9, 1997</del>	Group: 2617

## U.S. Patent Documents

Exam. Init.	Patent Number	Issue Date	Inventor Name(s)	Class/Subclass	Filing Date
<i>✓</i>	3,942,170	03/1976	Whyte	340/310 A	
<i>✓</i>	4,142,178	02/1979	Whyte et al.	340/310 R	
<i>✓</i>	4,475,209	10/1984	Udren	375/4	
<i>✓</i>	5,068,890	11/1991	Nilssen	379/90	
<i>✓</i>	5,148,144	09/1992	Sutterlin et al.	340/310 A	
<i>✓</i>	5,497,142	03/1996	Chaffanjon	340/310.06	

## Foreign Patent Documents

Exam. Init.	Doc. Number	Date	Country	Class/Subclass	Translation Yes/No

## Other Information (including author, title, date, pertinent pages, etc.)

Ex. Init.	Description
-----------	-------------

EXAMINER:

DATE CONSIDERED:

*[Signature]*  
*[Date]*

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

**Form PTO-1449** (modified)List of Patents and Publications  
For Applicant's Information

Disclosure Statement

(Use several sheets if necessary)

ATTY. DOCKET NO.

**NRWB002--2**

SERIAL NO.

~~08/826,983~~

APPLICANT: PAUL A. BROWN

09/287,028

FILING DATE **04/06/99**  
~~April 9, 1997~~GROUP  
2736**U.S. PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>W</i>		5,319,634	06/1994	Bartholomew et al.	370	18	
		5,066,939	11/1991	Mansfield	340	310 R	
		4,766,414	8/1988	Shuey	340	310 A	
<i>W</i>		2,577,731	12/1951	Berger	179	2.5	

**FOREIGN PATENT DOCUMENTS**

EXAM. INIT.	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO

**OTHER (Author, Title, Journal, Volume, Pertinent Pages, & Date)**

<i>W</i>		Informal English translation of French Application No. 7621599 corresponding to French Patent 2,326,087 (Zellweger Uster).					
----------	--	--	--	--	--	--	--

EXAMINER

*DM 2/18*

DATE CONSIDERED

*6/30/99*

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Information Disclosure Statement--PTO-1449 (Modified)



Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Serial No.

~~08/826,983~~

Applicant

Paul A. Brown

09/287,028

Filing Date

04/06/99

~~April 9, 1997~~

Group

2736

### Reference Designation

### U. S. Patent Documents

Examiner Initial		Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
<i>JS</i>	AA	3,696,383	10/72	Oishi et al.	340	310	
	AB	4,471,399	9/84	Udren	361	64	
	AC	4,517,548	5/85	Ise et al.	340	310 R	
	AD	5,406,249	4/95	Pettus	340	310.08	
	AE						
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

### FOREIGN PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Country	Class	Subclass	Translation Yes/No
	AL						
	AM						
	AN						
	AO						
	AP						

### OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

	AR	
	AS	
	AT	
	AU	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449

Form PTO-1449 (Modified)  
List of Patents and Publications  
For Applicant's Information  
Disclosure Statement

(Use several sheets if necessary)

Atty Docket No.

NRWB002--2

Applicant  
Paul A. Brown

Filing Date

04/06/99

~~9 April 1997~~

Serial No.

~~08/826,983~~

09/287,028

Group

2736

Reference Designation


U. S. Patent Documents

Examiner Initial	Document Number	Date	Name	Class	Sub Class	Filing Date If Appropriate
	AA					
	AB					
	AC					
	AD					
	AE					
	AF					
	AG					
	AH					
	AI					
	AJ					
	AK					

FOREIGN PATENT DOCUMENTS

Examiner Initial	Document Number	Date	Country	Class	Subclass	Translation Yes/No
	AL					
	AM					
	AN					
	AO					
	AP					

OTHER ART (Including Author, Title, Date Pertinent Pages, Etc.)

	AR	J. Gohari, "Power-Line Carrier," <u>Fundamentals Handbook of Electrical and Computer Engineering, Vol. II, Communication, Control, Devices, and Systems</u> , (Sheldon S. L. Chang, editor), John Wiley & Sons, New York, 1983, pp. 617-627.
	AS	
	AT	

Examiner

Date Considered

EXAMINER:

Initial if reference considered, whether or not citation is in conformance with MPEP609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

C:\IDS1449